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### METHOD AND DEVICE FOR LASER WELDING GALVANIZED STEEL SHEET

Patent number:

JP4231190

**Publication date:** 

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Inventor:

TORII NOBUTOSHI; others: 01

**Applicant:** 

**FANUC LTD** 

Classification:

- international:

B23K26/08; B23K26/00

- european:

Application number:

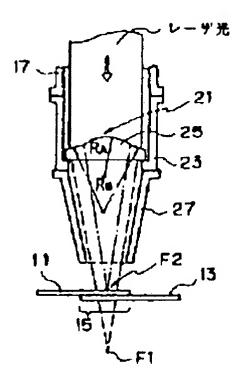
JP19900409098 19901228

Priority number(s):

#### Abstract of JP4231190

PURPOSE:To effectively execute with lap welding the galvanized steel plate by forming the optical laser to two kinds of convergent lasers separated of the high and low energy density at the same time.

CONSTITUTION: The laser light is divided to the 1st convergent laser of low energy density and the 2nd convergent laser of high energy density with the optical converging means 21 against the lapped part of the galvanized steel sheet the former radiates the lapped part of the steel sheet and the galvanized zinc is evaporated and dispersed, and the later melts the steel sheet and joins it. Therefore, on the laser lap welding of the galvanized steel plate, the welding can be executed effectively and well without the fault of blow holes, etc.



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### PATENT ABSTRACTS OF JAPAN

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(71) Applicant:

FANUC LTD

(72) Inventor:

TORII NOBUTOSHI . TERADA AKIHIRO

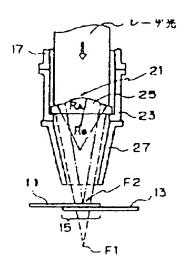
# (54) METHOD AND DEVICE FOR LASER WELDING GALVANIZED STEEL SHEET

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Title: JP4231190A2: METHOD AND DEVICE FOR LASER WELDING GALV

STEEL SHEET

P Derwent Title: Device for laser welding of galvanised steel sheets - comprises optical

condensing means to condense and apply laser beams onto lapped parts

of galvanised steel sheets [Derwent Record]

**©Country:** JP Japan

PKind: A

**PInventor:** TORII NOBUTOSHI;

TERADA AKIHIRO;

**PAssignee:** FANUC LTD

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**Published / Filed:** 1992-08-20 / 1990-12-28

**PApplication JP1990000409098** 

Number:

**PIPC Code: B23K 26/08**; B23K 26/00;

Priority Number: 1990-12-28 JP199000409098

PAbstract: PURPOSE: To effectively execute with lap welding the

galvanized steel plate by forming the optical laser to two kinds of convergent lasers separated of the high and low energy density at

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